EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6	"5637803"	USPAT	OR	OFF	2007/03/27 17:36
L2	5	("5637803").URPN.	USPAT	AND	ON	2007/03/27 17:38
L3	51	"6045755"	USPAT	AND	ON	2007/03/27 17:38
L4	107	"6045755"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/27 17:38
L5	385	Vit.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/27 17:39
L6	6	5 and plunger	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/27 17:40
L7	2	"6114680"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/27 17:40
L8	8	"3693455"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/27 17:41
L9	25	"3991912"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/27 17:41

EAST Search History

L10	7	"5981924"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/27 17:43
L11	5	"5345066"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/27 17:43
S1	755	(seal and plunger) and ("422" or "436") and (vessel or column or tube) and diaphragm	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/01/05 10:25
S2	0	("2769464").URPN.	USPAT	OR	OFF	2005/01/03 17:29
S3	19	("3969250").URPN.	USPAT	OR	OFF	2005/01/03 17:30
S4	3115	("422" or "436") and ((vessel or column or tube) with (diaphragm or seal) and (plug or plunger))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/01/03 17:33
S5	1269	S4 and (automa$4 or robot$2)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/01/03 17:34
S6	0	("5705066").URPN.	USPAT	OR	OFF	2005/01/03 17:36
S7	0	("5705066").URPN.	USPAT	OR	OFF	2005/01/03 17:36

EAST Search History

S8	86	("2442938" | "3292077" | "3387209" | "3396331" | "3404336" | "3441136" | "3461416" | "3669880" | "3726793" | "3738356" | "3753493" | "3818765" | "3831588" | "3871913" | "3920030" | "3939069" | "3979284" | "3980946" | "4017190" | "4077882" | "4085047" | "4087185" | "4138639" | "4166961" | "4197942" | "4220920" | "4227420" | "4314480" | "4371385" | "4398542" | "4399030" | "4411783" | "4412916" | "4444597" | "4460355" | "4477342" | "4515606" | "4517081" | "4526574" | "4545389" | "4572724" | "4610782" | "4676467" | "4676771" | "4676905" | "4681606" | "4690762" | "4695385" | "4734269" | "4740755" | "4758337" | "4784495" | "4784576" | "4798090" | "4825168" | "4834888" | "4844810" | "4919802" | "4925299" | "4932987" | "4964984" | "4974457" | "5004548" | "5032265" | "5041215" | "5045096" | "5061236" | "5110477" | "5114580" | "5151184" | "5178763" | "5259961" | "5336165" | "5383249" | "5392653" | "5524427" | "5547645" | "Re32711").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/03 17:55
S9	5103	((vessel or tube) with (plunger or plug)) and diaphragm	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/03 17:56
S10	1385	S9 and pressure and (robot$2 or automat$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 14:38
S11	7	("3784772").URPN.	USPAT	OR	OFF	2005/01/03 17:58
S12	2	"5735501"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/01/04 12:51
S13	10	("3138173").URPN.	USPAT	OR	OFF	2005/01/04 14:22
S14	1	("4176678").URPN.	USPAT	OR	OFF	2005/01/04 14:26
S15	16	("2894530" | "2896661" | "3066767" | "3138173" | "3151626" | "3155110" | "3478922" | "3811466" | "4003398").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 14:26
S16	7	("2896661").URPN.	USPAT	OR	OFF	2005/01/04 14:27

EAST Search History

S17	0	("4733689").URPN.	USPAT	OR	OFF	2005/01/04 14:27
S18	1	("3532105").URPN.	USPAT	OR	OFF	2005/01/04 14:28
S19	2	("4467999").URPN.	USPAT	OR	OFF	2005/01/04 14:33
S20	8	("2781051" | "3282288" | "3465786" | "3915010" | "4135550").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 14:33
S21	18	("4596271").URPN.	USPAT	OR	OFF	2005/01/04 14:35
S22	4194	((tube$2 or vessel$2 or column$2 or container$2) near4 (hold$3 or carry$4)) with (plunger or plug)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 14:51
S23	51	S22 and (robot$3 or automat$3) and diaphragm and pressure	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 14:40
S24	0	("2030436").URPN.	USPAT	OR	OFF	2005/01/04 14:40
S25	0	("6332705").URPN.	USPAT	OR	OFF	2005/01/04 14:45
S26	5	("3627276" | "4345843" | "4390283" | "5195825" | "5399013").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 14:46
S27	0	("2002/0049391").URPN.	USPAT	OR	OFF	2005/01/04 14:50
S28	256	((tube$2 or vessel$2 or column$2 or container$2) near4 (hold$3 or carry$4)) with (plunger or plug) and diaphragm	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 15:05
S29	16	("4265374").URPN.	USPAT	OR	OFF	2005/01/04 14:53
S30	1	("6579245").URPN.	USPAT	OR	OFF	2005/01/04 14:57
S31	8	("4154229" | "4207870" | "4307731" | "4421123" | "4998920" | "5356392" | "5897508" | "6004278").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 14:57
S32	66	("4207870").URPN.	USPAT	OR	OFF	2005/01/04 14:59
S33	17	("5084034").URPN.	USPAT	OR	OFF	2005/01/04 15:00
S34	1	("6039698").URPN.	USPAT	OR	OFF	2005/01/04 15:03
S35	6	("5084034" | "5275730" | "5377854" | "5575317" | "5673737" | "5764731").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 15:03
S36	69147	pressure near4 (cap or plug or plunger)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 15:05
S37	33060	S36 and (vessel$2 or tube or container)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 15:06
S38	4919	S37 and diaphragm	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 15:06

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S39	1518	S38 and (robot$2 or automat$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 16:58
S40	7	("4195730").URPN.	USPAT	OR	OFF	2005/01/04 15:47
S41	1	("4518003").URPN.	USPAT	OR	OFF	2005/01/04 15:52
S42	24	("4597412").URPN.	USPAT	OR	OFF	2005/01/04 15:54
S43	4	("4805443").URPN.	USPAT	OR	OFF	2005/01/04 16:04
S44	18	("5459351").URPN.	USPAT	OR	OFF	2005/01/04 16:12
S45	4	("4838089" | "5029478" | "5097841" | "5257547").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 16:13
S46	0	("2002/0090736").URPN.	USPAT	OR	OFF	2005/01/04 16:21
S47	7	("4534483" | "4655363" | "4753358" | "5512228" | "5711441" | "6116441" | "6375028").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 16:44
S48	1	"60257091"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 17:04
S49	14	"549351"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 17:04
S50	21	"5459351"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 17:04
S51	1	("4176678").URPN.	USPAT	OR	OFF	2005/01/04 17:22
S52	6928	(diaphragm with (cap or plug or plunger)) and pressure	USPAT	OR	OFF	2005/01/04 17:23
S53	7286	(diaphragm with (cap or plug or plunger or lid)) and pressure	USPAT	OR	OFF	2005/01/04 17:23
S54	1545	S53 and deflect$4	USPAT	OR	OFF	2005/01/04 17:23
S55	15	("4425065").URPN.	USPAT	OR	OFF	2005/01/04 17:29
S56	4	S54 and (self-sealing near3 diaphragm)	USPAT	OR	OFF	2005/01/04 17:29
S57	3	("6237621").URPN.	USPAT	OR	OFF	2005/01/04 17:31
S58	21	("0679519" | "0827823" | "1185684" | "2482198" | "2595406" | "2767735" | "2803527" | "3086698" | "3785395" | "3995653" | "4579141" | "4678014" | "5343889").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 17:31
S59	22	("5190067").URPN.	USPAT	OR	OFF	2005/01/04 17:51
S60	28	"6045755"	USPAT	OR	OFF	2005/01/04 17:51
S61	15	("4425065").URPN.	USPAT	OR	OFF	2005/01/04 18:30

S62	4	("4947544").URPN.	USPAT	OR	OFF	2005/01/04 18:37
S63	14	("3444341" | "3890477" | "3963889" | "3983351" | "4195209" | "4202081" | "4272660" | "4328406" | "4458117" | "4464551" | "4573398" | "4638721" | "4644116").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 18:38
S64	5	("4638721").URPN.	USPAT	OR	OFF	2005/01/04 18:41
S65	114	("2779828" | "3378656" | "3419692" | "3444341" | "3515832" | "3531607" | "3564977" | "3665373" | "3673546" | "3720090" | "3764763" | "3789171" | "3816685" | "3848517" | "3876845" | "3889077" | "3889087" | "3890477" | "3898405" | "3911238" | "3916149" | "3963889" | "3983351" | "3984649" | "4007344" | "4037317" | "4081636" | "4091249" | "4104495" | "4121073" | "4145587" | "4168415" | "4172412" | "4195209" | "4200776" | "4202081" | "4214137" | "4215254" | "4220836" | "4243858" | "4272660" | "4282476" | "4287780" | "4296287" | "4306127" | "4328406" | "4330695" | "4339638" | "4342887" | "4343974" | "4346272" | "4351105" | "4356365" | "4365406" | "4400602" | "4401964" | "4446614" | "4456801" | "4458117" | "4459444" | "4464551" | "4469923" | "4473729" | "4479039" | "4490903" | "4493957" | "4495389" | "4510763" | "4532389" | "4573398" | "4581509" | "4590670" | "4591677" | "4593166" | "4616114" | "4626636" | "4638721" | "4644116" | "4667069" | "4703140" | "4720759" | "4731510" | "4737604" | "4755638" | "4757165" | "4761525" | "4777978" | "4778963" | "4783580" | "4794214" | "4804808" | "4827094" | "4845322" | "4853504" | "4855545" | "4891479" | "4931604" | "4939321" | "4947544" | "4948931" | "4967047" | "4990728" | "4998087" | "5001317" | "5004873" | "5004876" | "5015808" | "5049708").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 18:43

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S66	4	("4091249" | "4342887" | "4861953" | "4948931").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 18:47
S67	8	("2704551" | "3177313" | "3378656" | "3553402" | "3816685").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 18:54
S68	2362	(vessel with diaphragm) and pressure	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 18:54
S69	4	("4932266").URPN.	USPAT	OR	OFF	2005/01/04 18:59
S70	6	("6050147").URPN.	USPAT	OR	OFF	2005/01/04 19:00
S71	4	("5939637" | "6050147" | "6312061" | "6351996").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 19:02
S72	4	("3899766" | "5535629" | "5587601" | "5661278").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 19:03
S73	8	("3890477" | "4166996" | "4274752" | "4698612" | "4900883" | "5001317" | "5061832" | "5471022").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 20:14
S74	52	"6045755"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 20:15
S75	7286	(diaphragm with (cap or plug or plunger or lid)) and pressure	USPAT	OR	OFF	2005/01/05 10:26
S76	1545	S75 and deflect$4	USPAT	OR	OFF	2005/01/05 10:26
S77	100	S76 and (pressure near2 gauge)	USPAT	OR	OFF	2005/01/05 12:16
S78	7535	(vessel$2 or tube$2 or container$2 or chamber$2) near6 (diaphragm$2 near3 pressure)	USPAT	OR	OFF	2005/01/05 12:17
S79	574	S78 near6 (plate or plunger or plug or stopper or cap or cover or lid)	USPAT	OR	OFF	2005/01/05 12:57
S80	4	(digestion near2 vessel$2) with diaphragm$2	USPAT	OR	OFF	2005/01/05 12:58
S81	9	("4933529").URPN.	USPAT	OR	OFF	2005/01/05 12:58
S82	2	("5345066").URPN.	USPAT	OR	OFF	2005/01/05 13:02
S83	2	("5948307").URPN.	USPAT	OR	OFF	2005/01/05 13:04
S84	0	("6803237").URPN.	USPAT	OR	OFF	2005/01/05 13:05